Memorandum



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Services

From: Tim Kraft

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Date: December 21, 2010

Subject: Clark County WWHM Soil Groupings

The Clark County version of the Western Washington Hydrology Model (WWHM) includes five soils groups to represent the many soil types found within the county limits. Although there are over 110 different soil types throughout Clark County, similarities between the soils allows them to be grouped into categories for modeling purposes.

Clark County soils are grouped into five categories largely based on their permeability and runoff potential. These categories include:

- Soil Group (SG) 1 Excessively drained soils (hydrologic soil groups A & B)
- Soil Group (SG) 2 Well drained soils (mostly hydrologic soil group B)
- Soil Group (SG) 3 Moderately drained soils (hydrologic soil groups B & C)
- Soil Group (SG) 4 Poorly drained soils (slowly infiltrating C soils, as well as D soils)
- Soil Group (SG) 5 Wetland soils (mucks).

Soil Groups 1 and 2 are those most suitable for traditional infiltration facilities such as trenches and drywells, while Soil Group 3 may only be suitable for slower infiltrating facilities such as rain gardens and other Low Impact Development (LID) measures. Soil Groups 4 and 5 are those which are typically not suitable for infiltration.

For additional information on the classification of soils for use in the Clark County WWHM model, please see the report titled "Development of the Clark County Version of the Western Washington Hydrology Model", which can be found on the county's community development web site.

The following table lists the WWHM soil group for each NCRS soil type in Clark County.

Map Symbol	Soil Name	HSG
	Soils Group (SG) 1	
LeB	LAUREN	В
LgB	LAUREN	В
LgD	LAUREN	В
LgF	LAUREN	В
LIB	LAUREN	В
Ro	ROUGH BROKEN LAND	A
SvA	SIFTON	В
WnB	WIND RIVER VARIANT	В
WnD	WIND RIVER VARIANT	В
WnG	WIND RIVER VARIANT	В
WrB	WIND RIVER VARIANT	В
WrF	WIND RIVER VARIANT	В
	PITS	A
	BONNEVILLE STONY SAND LOAM	A

ВрВ	BEAR PRARIE	В
ВрС	BEAR PRARIE	В
CnB	CINEBAR	В
CnD	CINEBAR	В
CnE	CINEBAR	В
CnG	CINEBAR	В
CrE	CINEBAR	В
CrG	CINEBAR	В
CsF	CISPUS	В
CtA	CLOQUATO	В
HlA	HILLSBORO	В
HlB	HILLSBORO	В
HIC	HILLSBORO	В
HID	HILLSBORO	В
HIE	HILLSBORO	В

Map Symbol	Soil Name	HSG	
HIF	HILLSBORO	В	
	Soils Group (SG) 2 (continued)		
KeC	KINNEY	В	
KeE	KINNEY	В	
KeF	KINNEY	В	
KnF	KINNEY	В	
LaE	LARCHMOUNT	В	
LaG	LARCHMOUNT	В	
LcG	LARCHMOUNT	В	
MsB	MOSSYROCK	В	
NbA	NEWBERG	В	
NbB	NEWBERG	В	
PhB	PILCHUCK	С	
PuA	PUYALLUP	В	
SaC	SALKUM	В	
VaB	VADER	В	
VaC	VADER	В	
WaA	WASHOUGAL	В	
WgB	WASHOUGAL	В	
WgE	WASHOUGAL	В	
WhF	WASHOUGAL	В	
YaA	YACOLT	В	
YaC	YACOLT	В	
YcB	YACOLT	В	

	30113 C. C. C. P (3 C.) C	
DoB	DOLLAR	С
НсВ	HESSON	С
HcD	HESSON	С
HcE	HESSON	С
HcF	HESSON	С
HgB	HESSON	С
HgD	HESSON	С
HhE	HESSON	С
НоА	HILLSBORO	В

Map Symbol	Soil Name	HSG
НоВ	HILLSBORO	В
	Soils Group (SG) 3 (continued)	
НоС	HILLSBORO	В
HoD	HILLSBORO	В
НоЕ	HILLSBORO	В
HoG	HILLSBORO	В
HsB	HILLSBORO	В
McB	McBEE	С
MeA	McBEE	С
MIA	McBEE	С
OeD	OLEQUA	В
OeE	OLEQUA	В
OeF	OLEQUA	В
OlB	OLYMPIC	В
OID	OLYMPIC	В
OlE	OLYMPIC	В
OIF	OLYMPIC	В
OmE	OLYMPIC	В
OmF	OLYMPIC	В
ОрС	OLYMPIC VARIANT	С
ОрЕ	OLYMPIC VARIANT	С
OpG	OLYMPIC VARIANT	С
OrC	OLYMPIC VARIANT	С
PoB	POWELL	С
PoD	POWELL	С
PoE	POWELL	С
SmA	SAUVIE	В
SmB	SAUVIE	В
SnA	SAUVIE	D
SpB	SAUVIE	В

CvA	COVE	D
CwA	COVE	D
GeB	GEE	С

Map Symbol	Soil Name	HSG
GeD	GEE	С
	Soils Group (SG) 4 (continued)	
GeE	GEE	С
GeF	GEE	С
GuB	GUMBOOT	D
HtA	HOCKINSON	D
HuB	HOCKINSON	D
HvA	HOCKINSON	D
LrC	LAUREN	С
LrF	LAUREN	С
MnA	MINNIECE	D
MnD	MINNIECE	D
MoA	MINNIECE VARIANT	D
OdB	ODNE	D
OhD	OLEQUA VARIANT	С
OhF	OLEQUA VARIANT	С
SIB	SARA	D
SID	SARA	D
SIF	SARA	D

Sr	SEMIAHMOO	С
Su	SEMIAHMOO VARIANT	D
ThA	TISCH	D